Focus Area 1: Access to Quality Health Services

Objective 1-9c calls for reduction in the hospitalization rate for immunization-preventable pneumonia and influenza to 8.0 per 10,000 population aged 65 years and over.

Hospital discharge data for 2004 indicates a total of 1,623 discharges among California residents aged 65 and older with a principal diagnosis of pneumonia or influenza, which translates to an age-adjusted rate of 4.0 hospitalizations per 10,000 population (Figure 1-9c, Table 1-9c). No significant trend was detected from 2000-2004, and this HP2010 objective is being achieved for all Californians aged 65 and over.

Immunization-preventable pneumonia and influenza hospitalization rates for males aged 65 and over (4.6 per 10,000 in 2004) were significantly higher than rates for females (3.6 per 10,000 in 2004). No significant trends were found, and the HP2010 objective is being achieved for both females and males.

Examined by race and ethnicity, the highest pneumonia and influenza hospitalization rates were found for Whites (4.3 per 10,000 in 2004), followed by Hispanics/Latinos (3.5 per 10,000 in 2004), African Americans/Blacks (3.3 per 10,000 in 2004), and Asians/Pacific Islanders (3.2 per 10,000 in 2004). Rates for these racial and ethnic populations were significantly lower than the HP2010 target. It remains unknown if the objective is being achieved for American Indians/Alaska Natives due to the small number of events that occur annually and the subsequent inability to calculate reliable rates.

For more information on immunization-preventable diseases, visit the CDHS Immunization Branch Web site at:

http://www.dhs.ca.gov/ps/dcdc/izgroup/index.htm

and the Preventive Health Care for the Aging Program Web site at:

http://www.dhs.ca.gov/ps/cdic/cdcb/Medicine/Gerontology/PHCA/index.htm

For more information on Healthy People 2010 objective 1-9c, please visit:

http://www.healthypeople.gov/Document/HTML/Volume1/01Access.htm#_Toc489432815

and

http://www.healthypeople.gov/Document/html/tracking/od01.htm#clinicalprev

**Figure 1-9c
Pneumonia and Influenza Hospitalization Rates
Among Persons Aged 65 and Over
California, 2000-2004**

Healthy People 2010 objective = 8.0

Rate per 10,000 population aged 65 & over

Legend: ■ 2004 ■ 2003 ■ 2002 □ 2001 ■ 2000

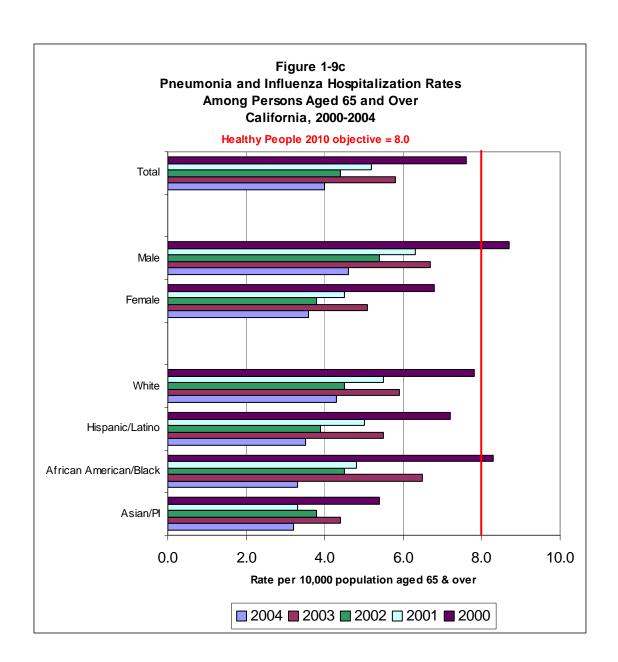Categories (top to bottom): Total, Male, Female, White, Hispanic/Latino, African American/Black, Asian/PI

Table 1-9c: Pneumonia and Influenza Hospitalization Rates Among Persons Aged 65 and Over
California, 2000-2004

Objective 1-9c	2000 N	2000 Rate1	Lower C.I.	Upper C.I.	2001 N	2001 Rate1	Lower C.I.	Upper C.I.
Healthy People 2010 Target		**8.0**				**8.0**		
Statewide Total	2,746	7.6	7.3	7.9	1,960	5.2	5.0	5.4
Race-Ethnicity								
American Indian/Alaska Native	6	DSU	------	------	7	DSU	------	------
Asian/Pacific Islander	185	5.4	4.7	6.2	124	3.3	2.7	3.9
Black/African American	146	8.3	6.9	9.6	90	4.8	3.8	5.8
Hispanic/Latino	316	7.2	6.4	8.0	234	5.0	4.4	5.7
White	2,038	7.8	7.5	8.1	1,474	5.5	5.2	5.8
Gender								
Female	1,458	6.8	6.4	7.1	986	4.5	4.2	4.7
Male	1,288	8.7	8.3	9.2	974	6.3	5.9	6.7

Objective 1-9c	2002 N	2002 Rate1	Lower C.I.	Upper C.I.	2003 N	2003 Rate1	Lower C.I.	Upper C.I.
Healthy People 2010 Target		**8.0**				**8.0**		
Statewide Total	1,720	4.4	4.2	4.6	2,313	5.8	5.5	6.0
Race-Ethnicity								
American Indian/Alaska Native	4	DSU	------	------	7	DSU	------	------
Asian/Pacific Islander	152	3.8	3.2	4.3	189	4.4	3.8	5.0
Black/African American	87	4.5	3.5	5.4	128	6.5	5.3	7.6
Hispanic/Latino	202	3.9	3.4	4.5	296	5.5	4.9	6.1
White	1,232	4.5	4.3	4.8	1,640	5.9	5.6	6.2
Gender								
Female	852	3.8	3.5	4.0	1,194	5.1	4.8	5.4
Male	868	5.4	5.0	5.8	1,119	6.7	6.3	7.1

Objective 1-9c	2004 N	2004 Rate1	Lower C.I.	Upper C.I.	5-year Trend	HP2010 Objective Being Achieved?
Healthy People 2010 Target		**8.0**				
Statewide Total	1,623	4.0	3.8	4.2	ns	Yes
Race-Ethnicity						
American Indian/Alaska Native	1	DSU	------	------	n/a	Unk
Asian/Pacific Islander	145	3.2	2.7	3.8	ns	Yes
Black/African American	68	3.3	2.5	4.1	ns	Yes
Hispanic/Latino	201	3.5	3.0	4.0	ns	Yes
White	1,172	4.3	4.0	4.5	ns	Yes
Gender						
Female	846	3.6	3.3	3.8	ns	Yes
Male	777	4.6	4.3	4.9	ns	Yes

SOURCES: Office of Statewide Health Planning and Development, Patient Discharge Data, 2000-2004;
CA Department of Finance, Demographic Research Unit, *Population Projections by Race/Ethnicity for California and Its Counties 2000-2050*, May 2004.

NOTES: * ICD-9-CM codes 481 or 487 as a Principal Diagnosis.
[1] Age-adjusted rate per 10,000 population aged 65 years and older.

DSU   Data statistically unreliable (Relative Standard Error greater than 23 percent).
n/a   Reliable data not available for trend analysis.
ns   No significant trend as measured by linear regression analysis.